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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/580,000	02/21/2007	Yuriko Taniguchi	291355US0PCT	7759
22859 7590 0400/2010 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P. 1940 DUKE: STREET ALEXANDRIA, VA 22314			EXA	MINER
			ROBINSON, HOPE A	
			ART UNIT	PAPER NUMBER
			1652	•
			NOTIFICATION DATE	DELIVERY MODE
			04/01/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

Office Action Summary

Application No.	Applicant(s)	
10/580,000	TANIGUCHI ET AL.	
Examiner	Art Unit	
HOPE A. ROBINSON	1652	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply	o de los estados vinas de la composição de de la composição de la composiç				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET I WHICHEVER IS LONGER, FROM THE MAILING DATE OF TI - Extensions of time may be available under the provisions of 37 CFR 1.13(a), In no ex- after SIX (6) MCPIT'IS from the making date of the communication. For the state of the state of the communication of the state of t	HIS COMMUNICATION. ent. however, may a repty be timely filed will expire SIX (6) MONTHS from the mailing date of this communication. plication to become ABANDONED (35 U.S.C. § 133).				
Status					
 Responsive to communication(s) filed on <u>1/19/10</u>. 					
2a) This action is FINAL. 2b) This action is r	non-final.				
 Since this application is in condition for allowance except 	for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Qu	uayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) Claim(s) 2-4,7-13 and 16 is/are pending in the application	n.				
4a) Of the above claim(s) is/are withdrawn from co	onsideration.				
5) Claim(s) is/are allowed.					
6) Claim(s) 2-4,7-13 and 16 is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election r	requirement.				
Application Papers					
The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on 19 May 2006 is/are: a)⊠ accepte	ed or b) objected to by the Examiner.				
Applicant may not request that any objection to the drawing(s)	be held in abeyance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required. The oath or declaration is objected to by the Examiner. N	• • • • • • • • • • • • • • • • • • • •				
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority un	ider 35 U.S.C. § 119(a)-(d) or (f).				
a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been	en received.				
Certified copies of the priority documents have been	en received in Application No				
Copies of the certified copies of the priority docum	ents have been received in this National Stage				
application from the International Bureau (PCT Ru	le 17.2(a)).				
* See the attached detailed Office action for a list of the cert	ified copies not received.				
Attachment(s)	0 T http://www.com.com/				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Interview Summary (PTO-413) Paper No(s)/Mail Date				
3) Information Disclosure Statement(s) (FTC/SB/08)	5) Notice of Informal Patent Application				
Paper No(s)/Mail Date 1/19/10.	6) Other:				

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Ü,	S. Patent and Trademark Offic
F	TOL-326 (Rev. 08-06)

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DETAILED ACTION

Application Status

Applicant's response to the Office Action mailed September 24, 2009 on January
 2010, is acknowledged.

Claim Disposition

2. Claims 2-4, 7-13 and 16 are pending and are under examination.

Withdrawn-Specification Objection

 Previous objections to the specification are <u>withdrawn</u> by virtue of submission of an amendment.

Claim Objection

- 4. Claims 2 and 10-11 are objected to because of the following informalities:
- For clarity and precision of claim language it is suggested that claim 2 is amended to read for example,
- "A method for reducing the effect of a fructosyl lysine compound in an assay of [[a qlycated protein contained in]] a glycated protein-containing sample.

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the method comprising treating the sample with a protease to release free fructosyl valine or fructosyl valvhistidine.

[[reacting an enzyme for assaying fructosyl valine or fructosyl valylhistidine]]

reacting a fructosyl amino acid oxidase with the glycated protein-containing sample
[[with the released fructosyl valine or fructosyl valylhistidine]] at a pH of 4.0 to
7.0 to produce [[a product]] hydrogen peroxide.

measuring the <u>hydrogen peroxide</u> [[product of the reacting at a pH of 4.0 to 7.0]]; and correlating the measuring of the <u>hydrogen peroxide</u> [[product to]] <u>with</u> the presence or level of glycated protein in the sample". See claims 10 and 11 which have similar language.

Correction is required.

Information Disclosure Statement

5. The Information Disclosure Statement filed on January 19, 2010 has been received and entered. The references cited on the PTO-1449 Form have been considered by the examiner and a copy is attached to the instant Office action.

Maintained and Amended-Claim Rejections - 35 USC ∋ 112

The following is a guotation of the second paragraph of 35 U.S.C. 112:

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The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

 Claims 2-4, 7-13 and 16 are rejected under 35 U.S.C. 112, second paragraph, as failing to set forth the subject matter, which applicant (s) regard as their invention.

Claims 2-4, 7-13 and 16 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. The omitted steps are: the claims do not set forth how the "effect of a fructosyl lysine is reduced". Claim 2 for example, recites "treating with a protease" and "reacting an enzyme", however, the claim language remains unclear as to how "the effect of a fructosyl lysine is reduced". The claim language does not adequately establish how the measuring of the product in the presence or level of glycated protein in the sample leads to a reduced effect of a fructosyl lysine compound. The claim remains confusing with respect to "measuring the product" and it is unclear what " product" is measured, and what is being measured, is a property of the fructosyl lysine compound measured or a property of the enzyme used in the assay, measured.

New-Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

 Claims 2-4, 7-13 and 16 are rejected under 35 U.S.C. 102(a) as being anticipated by Hirokawa et al. (Biochemical and Biophysical Research Comm., Vol. 311, pages 104-111, July 2003, cited on the IDS filed 9/22/08).

Hirokawa et al. disclose a protease from *Aspergillus* that could efficiently liberate fructosyl peptides from HbA_{1c} (see page 104). The reference teaches a fructosyl peptide oxidase (FPOX) that is active against fructosyl peptides that can be used to measure HbA_{1c}). Hirokawa et al. disclose a pH of 6.5 and 8 (page 106), thus anticipates the recited pH range of 4 to 7. Hirokawa et al. teach that fructosyl amino acid oxidase (FAOX) or amadoridase catalzyes the oxidative deglycation of glycated amino acids to produce the corresponding amino acids, glucosone and hydrogen peroxide (see page 104).

Therefore, the limitations of the claims are met by the reference.

Response to Applicant's Arguments:

8. The amendment filed has been considered in full. Note that the objections of record are withdrawn, however, new objections are made over the claims for the reasons set forth above. The rejection under 35 USC 112 second paragraph remains and has been amended based on modifications to the claims. Applicant state that the claims have been amended thus the 112, second paragraph rejection should be withdrawn. This argument is not persuasive because the issue remains that the "effect"

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is not clear in the claim language. The instant method is directed to a method of reducing effect of a fructosyl lysine compound and the claim establishes that a protease is used in an assay, however, there is no indication as to what effect is reduced and how exactly that is measured. Thus, the rejection remains.

Previous rejection under 35 USC 102 (b) is withdrawn, thus applicant's comments are moot. However, note that a new ground of rejection has been instituted under 25 USC 102(a) for the reasons set forth above.

Conclusion

9. No claims are allowable.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hope A. Robinson whose telephone number is 571-272-0957. The examiner can normally be reached on Monday-Friday from 10:00 a.m. to 6:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Wang, can be reached at (571) 272-0811.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Hope A. Robinson/

Primary Examiner, Art Unit 1652